US 20140195213A1

(19) United States

(12) Patent Application Publication

(10) Pub. No.: US 2014/0195213 A1

(43) Pub. Date: Jul. 10, 2014

Kozloski et al.

(54) **AUTOMATIC DRIVER MODELING FOR INTEGRATION OF HUMAN-CONTROLLED VEHICLES INTO AN AUTONOMOUS VEHICLE NETWORK**

(71) Applicant: **INTERNATIONAL BUSINESS MACHINES CORPORATION**, Armonk, NY (US)

(72) Inventors: **James R. Kozloski**, New Fairfield, CT (US); **Timothy M. Lynar**, Kew (AU); **Cristian Vecchiola**, Victoria (AU)

(73) Assignee: **INTERNATIONAL BUSINESS MACHINES CORPORATION**, Armonk, NY (US)

(21) Appl. No.: **13/738,317**

(22) Filed: **Jan. 10, 2013**

Publication Classification

(51) **Int. Cl.**
G06F 17/50 (2006.01)

(52) **U.S. Cl.**
CPC ***G06F 17/5018*** (2013.01)
USPC **703/8**

(57) **ABSTRACT**

Automatic driver modeling is used to integrate human-controlled vehicles into an autonomous vehicle network. A driver of a human-controlled vehicle is identified based on behavior patterns of the driver measured by one or more sensors of an autonomous vehicle. A model of the driver is generated based on the behavior patterns of the driver measured by the one or more sensors of the autonomous vehicle. Previously stored behavior patterns of the driver are then retrieved from a database to augment the model of the driver. The model of the driver is then transmitted from the autonomous vehicle to nearby vehicles with autonomous interfaces.